



# SAYSO

Standardisation of situational Awareness systems  
to Strengthen Operations in civil protection

## First Public Workshop

21 March 2018

DIN, Berlin



SAYSO has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 740872.



## SAYSO: What is it about?

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SAYSO aims to pave the way for the development of innovative **Situational Awareness Systems** (multiple sensors, computer-based decision support) **for improved coordination of multi-stakeholder civil protection operations.**

The **SAYSO mission** is to define the **specifications** and corresponding **Reference Architecture** for beyond the State-of-the-Art **Situational Awareness tools** that fulfil end-user requirements and that can be used **across different organisations, different command levels and national borders.**

By the end of the project, SAYSO will provide the information and tools that Public Procurement Authorities need to **launch pre-commercial procurements** required to develop SAYSO-compliant Situational Awareness Systems.

## Objectives of the workshop

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Since the project start in May 2017, the project has produced:

- A [State-of-the-Art review](#) of existing Situational Awareness Systems
- An [inventory of practitioners' requirements](#) for future Multi-Stakeholder Situational Awareness System (MSSAS)
- [Reference scenarios](#) to assess the SAYSO specifications to be developed in the project
- A [gap analysis](#) between the State-of-the-Art analysis and the practitioners' requirements

The objectives of the first SAYSO public workshop are:

- **Objective 1:** Obtain feedback on the first project results described above so that they can be further refined.
- **Objective 2:** Provide suppliers the opportunity to present their Situational Awareness tools to end-users in a tradeshow session and give end-users the possibility to learn more about the Situational Awareness tools available on the market.
- **Objective 3:** Learn more about new procurement instruments (PCP/PPI) and establish connections with colleagues in other member states so as to be ready to jointly elaborate procurements of Situational Awareness Systems for Multiple Stakeholders.

## Benefits of attending the workshop

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- **For end-users:** Contribute to **refine the requirements** for future Situational Awareness Systems for Multiple Stakeholders as identified in the first phase of the project. By providing your requirements on what needs such a system should satisfy, you contribute to shaping Situational Awareness Systems that best suit your operations, and which will support you in taking the right decisions in crisis situations. End-users will also be able to **learn more about the Situational Awareness tools available on the market.**

- **For suppliers of Situational Awareness tools:** by attending the event, you will gain a **better understanding of the needs** expressed by the end-users during a European-wide survey conducted by SAYSO. In a tradeshow session, you will also have the opportunity to **present Situational Awareness tools to the end-users** who will attend the workshop.
- **For public procurement authorities:** you will **learn more about new procurement instruments (PCP/PPI)** and establish **connections with colleagues in other member states** so as to be ready to jointly elaborate procurements of Situational Awareness Systems for Multiple Stakeholders.

## Date and Location

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The workshop takes place on **21 March 2018 at the German Institute for Standardization – DIN in Berlin** (Am DIN-Platz, Burggrafenstrasse 6, 10787 Berlin).

### DIN Visitor Pass

You will obtain your DIN visitor pass at the reception desk in the DIN-Platz/Burggrafenstrasse lobby or the Budapester Strasse lobby. Please keep your visitor pass visible at all times. When you leave the building, return your visitor pass to the boxes at the door designated for this purpose.

### Luggage

At the reception desk in the Burggrafenstrasse lobby, lockers for storing luggage during your stay at DIN are provided. These lockers also have electric sockets. If you do not use the lockers, please keep your luggage with you at all times and do not leave it unattended.

## Contact details

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### General inquiries about the event:

If you have any queries about the workshop, please contact [sayso\\_coordination@eurtd.com](mailto:sayso_coordination@eurtd.com) or ask a question on the workshop [registration page](#) on the SAYSO Online Community Platform (see above for further details).

**If you have any problems with your online registration,** please contact:

[sayso\\_coordination@eurtd.com](mailto:sayso_coordination@eurtd.com).

## Agenda

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*During lunch and the tradeshow session, participants will have the possibility to visit the stands of suppliers of Situational Awareness tools.*

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**10:30 – 11:00**    **Welcome coffee and registration**

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**11:00 – 11:20**    **Welcome from Dr. Michael Stephan, DIN**  
**Welcome from Albrecht Broemme, THW**

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**11:20 – 11:45**    **SAYSO: Project overview and objectives**  
Project presentation followed by a Q&A session

Practitioner requirements for future Situational Awareness Systems  
*Hanna Burkow, SAYSO Project Coordinator, THW*

System specifications and Reference Architecture for future Situational Awareness Systems  
*Prof. Friedrich Steinhäusler, ISCC and Matts Ahlsen, CNET*

Future procurement of SAYSO-compliant Situational Awareness Systems: What's innovation procurement, PCP and PPI?  
*Georgios Eftychidis, KEMEA*

Standardisation in shared Situational Awareness  
*Stefanie Müller, DIN*

Network & Community  
*Romuald Beauvais, ARTTIC*

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**11:45 – 12:00**    **Teaser presentations of suppliers' stands**

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**12:00 – 13:15**    **Lunch** (finger food)  
*The suppliers' stands are open during the lunch break*

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**13:15 – 14:15**    **Presentation of first project results**

Inventory of practitioners' requirements for future Multi-Stakeholder Situational Awareness System (MSSAS)  
*Hanna Burkow, SAYSO Project Coordinator, THW*

State-of-the-Art review of existing Situational Awareness Systems  
*Prof. Friedrich Steinhäusler, ISCC*

Reference scenarios to assess the SAYSO specifications  
*Hanna Burkow, SAYSO Project Coordinator, THW*

Gap analysis between the State-of-the-Art analysis and the practitioners' requirements - *Hanna Burkow, SAYSO Project Coordinator, THW*

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**14:15 – 14:30**    **Coffee break**

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**14:30 – 14:35**    **Introduction to the feedback sessions**

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Explanation of the organisation of the feedback sessions and the methodology used to frame the discussions and collect feedback

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**14:35 – 16:20    Feedback sessions**

Group discussions of first project results in feedback sessions on the following topics:

Situational awareness tools on the basis of the reference scenarios  
*Prof. Friedrich Steinhäusler, ISCC*

Discussions on practitioners' requirements  
*Hanna Burkow, SAYSO Project Coordinator, THW*

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**16:20 – 16:30    Conclusions of the workshop**

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**16:30 – 17:30    Tradeshaw session**

Stands of suppliers of Situational Awareness tools:  
*SATWAYS (including EU projects IN-PREP and EU-CIRCLE)*  
*treelogic*  
*Leonardo*  
*Fraunhofer*

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## Keynote speakers

### Albrecht Broemme, President of the Federal Agency for Technical Relief – THW

Albrecht Broemme was born in 1953 in Darmstadt and graduated in electrical engineering from Darmstadt University of Applied Sciences. He has completed the second state examination to become a high-ranking firefighter (public servant). From 1992, he became Berlin's fire protection director, taking responsibility of the Berlin fire brigade, of which he had been a member of staff since 1977. As of May 2006, he is president of the Federal Agency for Technical Relief (THW). He has been honoured for his achievements on multiple occasions: Albrecht Broemme was awarded the German Cross of Honour for Firefighters in gold and in 2002 the Beuth memorial medal from the German Institute for Standardisation (DIN). In addition to his extensive involvement in public bodies and professional associations, he is very passionate about the contributions that the THW can make to national and international research.

### Dr. Michael Stephan, German Institute for Standardization – DIN

Dr. Michael Stephan was born in Mannheim. He studied production engineering at the Technical University of Berlin (TU Berlin), receiving his doctorate in 1995 from the Faculty of Mechanical Engineering and Transport Systems. After graduation, Stephan began his career at Daimler AG, where he headed several projects introducing CAD and Product Data Management (PDM) technologies in product development. In 2001 he joined Bombardier Transportation, leading several corporation-wide projects for redesigning and optimizing technical processes and introducing CAD, PDM and SAP systems. Since 2009 Dr. Stephan has held top positions managing rail vehicle projects in Germany and Switzerland. Since June 2016 Dr. Michael Stephan has been a member of DIN's Management Board, heading the Innovation and Digital Technologies Division from 2016 to 2017 and the Standardization Division since 2018.

## Exhibition

The following European projects/suppliers are exhibiting innovative solutions for improving the coordination of civil protection operations.

### SATWAYS / IN-PREP and EU-CIRCLE projects



**Satways** is developing integrated Geospatial command and control solutions for Security and Public Safety to be used by First responders, Critical Infrastructure Operators and Border Authorities to manage efficiently both day-to-day incidents as well as crisis situations. Satways is the technical coordinator of the Horizon 2020 IN-PREP and EU-CIRCLE projects, in which frame developments of the CIRP (Critical Infrastructure Resilience Platform) are made.



**IN-PREP** will produce an IT-based platform – a mixture of novel disaster management tools and processes - that can facilitate the response planning and training during natural and man-made crises.



**EU-CIRCLE**  
A pan-European framework for strengthening  
Critical Infrastructure resilience to climate change

**EU-CIRCLE project:** The main strategic objective of EU-CIRCLE is to move towards infrastructure network(s) that is resilient to today's natural hazards and prepared for the future changing climate.

### Treelogic



TreeLogic ([www.treelogic.com](http://www.treelogic.com)) is an SME in Information and Communication Technologies, highly specialised in intelligent data processing. TreeLogic helps optimizing processes and business operations using advanced ICT solutions focused on Artificial Intelligence and Big Data, integrating emerging technologies as part of the Smart Data ecosystem. In particular, BigData, Machine Learning and Analytics, Computer Vision, Cognitive Systems, or Visual Analytics occupy a position of high standing among the company's research lines. Our knowledge is applied in providing situational awareness systems for law enforcement agencies and transport companies with solutions like [Heka](#) and [Lyra](#).

### Leonardo



Leonardo is a global high-tech player (47,000 employees; market presence in over 150 countries) operating in the Aerospace, Defence and Security sectors where the company provides tailored solutions for Government, Law Enforcement, Critical Infrastructures, Safe Cities, Air Traffic Control, Transportation and Logistics.

Leonardo Safety and Security Integration Platform (SC2) takes advantage of Leonardo's heritage and experience in designing and manufacturing mission critical systems. The platform is built around an open, scalable and resilient architecture. The wide adoption of Web Services (SOA), Enterprise Service Bus and state of the art development technology, makes it highly customizable allowing the integration in virtually infinite environments and scenarios by the use of both standard sensors (e.g. ONVIF devices) as well as other high featured legacy sensors. SC2 takes advantage of Leonardo's network integration platform and supplier integrated PPDR communications on TETRA and other technologies allowing coordination of resources on the field.

### Fraunhofer Institute for Transportation and Infrastructure Systems IVI

More details coming soon.

## Maps and directions

**Nearest underground station (U-Bahn):** Wittenbergplatz.

**Nearest main-line railway station:** Hauptbahnhof, approx. 10 minutes by S-Bahn (city-rail) to Zoologischer Garten in direction Westkreuz. From there a 10-minute walk, or by Bus 100 to Bayreuther Straße.

**Nearest regional railway station:** Zoologischer Garten, approx. 10 minutes walking distance or by Bus 100 to Bayreuther Straße.

**From the airports:** Tegel: Bus 109 or Bus X9 to Zoologischer Garten; Schönefeld: Airport-Express or S-Bahn (city rail) S9, changing at Ostkreuz to any train with destination Westkreuz, Potsdam or Spandau, getting off at Zoologischer Garten.

